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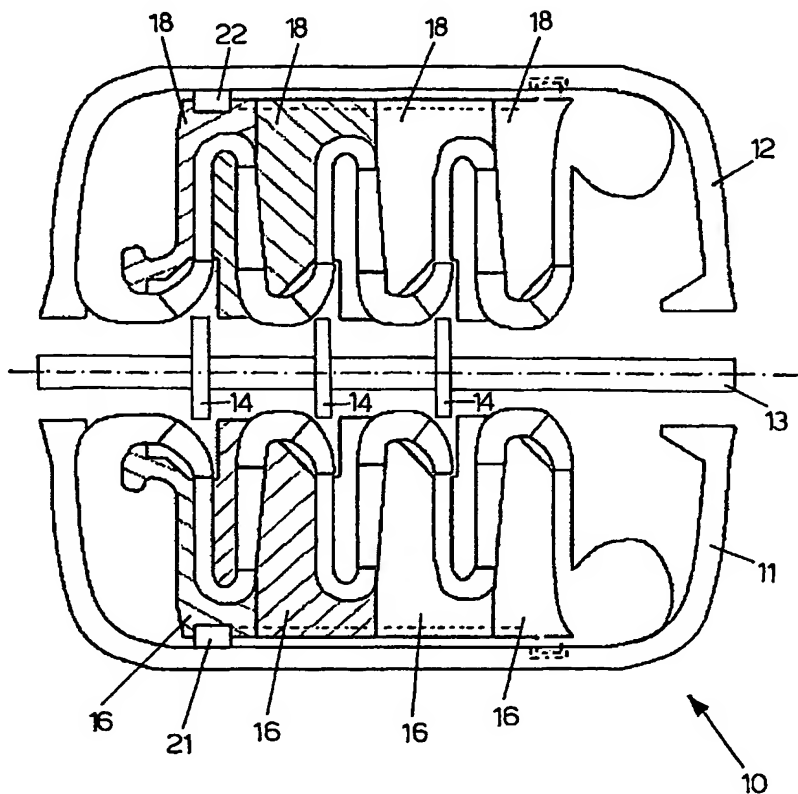
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(54) Title: **MULTISTAGE CENTRIFUGAL COMPRESSOR AND METHOD FOR ASSEMBLY THE SAME**



(57) Abstract: Multistage centrifugal compressor having a tank which can be opened horizontally, comprising a lower semi-tank (11) and an upper semi-tank (12), a shaft 13 having a series of rotors 14 and a series of stages (10) each of which comprising, in turn, a series of lower semi-diaphragms 16 and a series of upper semi-diaphragms 18, a lower half-ring (21) and an upper half-ring (22) which can be coupled to form a bearing ring, the lower half-ring (21) being fastened internally to the lower semi-tank (11), and the corresponding upper half-ring (22) being fastened to the upper semi-tank (12), in each stage (10) of the multistage centrifugal compressor, the lower semi-diaphragms 16 are rigidly constrained to one another by blocking means, to form a first pile (41) of lower semi-diaphragms (16) and, the corresponding upper semi-diaphragms (18) are rigidly constrained to one another by blocking means, to form a second pile (42) of lower semi-diaphragms (16), the first pile (41) can be constrained to the lower half-ring (21) and the second pile (42) can be constrained to the upper half-ring (22).



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